



10498-00059.ST25.txt
SEQUENCE LISTING

<110> Donald, Coen M.
Pilger, Beatrice D.

<120> Method For Determining Protein Interaction Inhibitors

<130> 10498-00059

<140> 10/712,785

<141> 2003-11-13

<150> PCT/US02/15878

<151> 2002-05-20

<150> US 60/291,901

<151> 2001-05-18

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 18

<212> PRT

<213> herpes simplex virus

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> acetylated amino acid

<220>

<221> MISC_FEATURE

<222> (18)..(18)

<223> amidated amino acid

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Ala Thr Ala Glu Glu Thr Arg Arg Met Leu His Arg Ala Phe Asp Thr
1 5 10 15

Leu Ala

<210> 2

<211> 339

<212> PRT

<213> herpes simplex virus

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Met Thr Asp Ser Pro Gly Gly Val Ala Pro Ala Ser Pro Val Glu Asp
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Ala Ser Asp Ala Ser Leu Gly Gln Pro Glu Glu Gly Ala Pro Cys Gln
20 25 30

Val Val Leu Gln Gly Ala Glu Leu Asn Gly Ile Leu Gln Ala Phe Ala
35 40 45

Pro Leu Arg Thr Ser Leu Leu Asp Ser Leu Leu Val Met Gly Asp Arg
50 55 60

Gly Ile Leu Ile His Asn Thr Ile Phe Gly Glu Gln Val Phe Leu Pro
65 70 75 80

Leu Glu His Ser Gln Phe Ser Arg Tyr Arg Trp Arg Gly Pro Thr Ala
85 90 95

Ala Phe Leu Ser Leu Val Asp Gln Lys Arg Ser Leu Leu Ser Val Phe
100 105 110

Arg Ala Asn Gln Tyr Pro Asp Leu Arg Arg Val Glu Leu Ala Ile Thr
115 120 125

Gly Gln Ala Pro Phe Arg Thr Leu Val Gln Arg Ile Trp Thr Thr Thr
 130 135 140

Ser Asp Gly Glu Ala Val Glu Leu Ala Ser Glu Thr Leu Met Lys Arg
 145 150 155 160

Glu Leu Thr Ser Phe Val Val Leu Val Pro Gln Gly Thr Pro Asp Val
 165 170 175

Gln Leu Arg Leu Thr Arg Pro Gln Leu Thr Lys Val Leu Asn Ala Thr
 180 185 190

Gly Ala Asp Ser Ala Thr Pro Thr Thr Phe Glu Leu Gly Val Asn Gly
 195 200 205

Lys Phe Ser Val Phe Thr Thr Ser Thr Cys Val Thr Phe Ala Ala Arg
 210 215 220

Glu Glu Gly Val Ser Ser Ser Thr Ser Thr Gln Val Gln Ile Leu Ser
 225 230 235 240

Asn Ala Leu Thr Lys Ala Gly Gln Ala Ala Ala Asn Ala Lys Thr Val
 245 250 255

Tyr Gly Glu Asn Thr His Arg Thr Phe Ser Val Val Val Asp Asp Cys
 260 265 270

Ser Met Arg Ala Val Leu Arg Arg Leu Gln Val Gly Gly Gly Thr Leu
 275 280 285

Lys Phe Phe Leu Thr Thr Pro Val Pro Ser Leu Cys Val Thr Ala Thr
 290 295 300

Gly Pro Asn Ala Val Ser Ala Val Phe Leu Leu Lys Pro Gln Lys Ile
 305 310 315 320

Cys Leu Asp Trp Leu Gly His Ser Gln Gly Ser Pro Ser Ala Gly Ser
 325 330 335

Ser Ala Ser

<210> 3

<211> 1235

<212> PRT

<213> herpes simplex virus

<400> 3

Met Phe Ser Gly Gly Gly Gly Pro Leu Ser Pro Gly Gly Lys Ser Ala
 1 5 10 15

Ala Arg Ala Ala Ser Gly Phe Phe Ala Pro Ala Gly Pro Arg Gly Ala
 20 25 30

Ser Arg Gly Pro Pro Pro Cys Leu Arg Gln Asn Phe Tyr Asn Pro Tyr
 35 40 45

Leu Ala Pro Val Gly Thr Gln Gln Lys Pro Thr Gly Pro Thr Gln Arg
 50 55 60

His Thr Tyr Tyr Ser Glu Cys Asp Glu Phe Arg Phe Ile Ala Pro Arg
 65 70 75 80

Val Leu Asp Glu Asp Ala Pro Pro Glu Lys Arg Ala Gly Val His Asp
 85 90 95

Gly His Leu Lys Arg Ala Pro Lys Val Tyr Cys Gly Gly Asp Glu Arg
 100 105 110

Asp Val Leu Arg Val Gly Ser Gly Gly Phe Trp Pro Arg Arg Ser Arg
 115 120 125

Leu Trp Gly Gly Val Asp His Ala Pro Ala Gly Phe Asn Pro Thr Val
 130 135 140

Thr Val Phe His Val Tyr Asp Ile Leu Glu Asn Val Glu His Ala Tyr
 145 150 155 160

Gly Met Arg Ala Ala Gln Phe His Ala Arg Phe Met Asp Ala Ile Thr
 165 170 175

Pro Thr Gly Thr Val Ile Thr Leu Leu Gly Leu Thr Pro Glu Gly His
 180 185 190

Arg Val Ala Val His Val Tyr Gly Thr Arg Gln Tyr Phe Tyr Met Asn
 195 200 205

Lys Glu Glu Val Asp Arg His Leu Gln Cys Arg Ala Pro Arg Asp Leu
 210 215 220

Cys Glu Arg Met Ala Ala Ala Leu Arg Glu Ser Pro Gly Ala Ser Phe
 225 230 235 240

Arg Gly Ile Ser Ala Asp His Phe Glu Ala Glu Val Val Glu Arg Thr
 245 250 255

Asp Val Tyr Tyr Tyr Glu Thr Arg Pro Ala Leu Phe Tyr Arg Val Tyr
 260 265 270

Val Arg Ser Gly Arg Val Leu Ser Tyr Leu Cys Asp Asn Phe Cys Pro
 275 280 285

Ala Ile Lys Lys Tyr Glu Gly Gly Val Asp Ala Thr Thr Arg Phe Ile
 290 295 300

Leu Asp Asn Pro Gly Phe Val Thr Phe Gly Trp Tyr Arg Leu Lys Pro
 305 310 315 320

Gly Arg Asn Asn Thr Leu Ala Gln Pro Ala Ala Pro Met Ala Phe Gly
 325 330 335

Thr Ser Ser Asp Val Glu Phe Asn Cys Thr Ala Asp Asn Leu Ala Ile
 340 345 350

Glu Gly Gly Met Ser Asp Leu Pro Ala Tyr Lys Leu Met Cys Phe Asp
 355 360 365

Ile Glu Cys Lys Ala Gly Gly Glu Asp Glu Leu Ala Phe Pro Val Ala
 370 375 380

Gly His Pro Glu Asp Leu Val Ile Gln Ile Ser Cys Leu Leu Tyr Asp
 385 390 395 400

Leu Ser Thr Thr Ala Leu Glu His Val Leu Leu Phe Ser Leu Gly Ser
 405 410 415

Cys Asp Leu Pro Glu Ser His Leu Asn Glu Leu Ala Ala Arg Gly Leu
 420 425 430

Pro Thr Pro Val Val Leu Glu Phe Asp Ser Glu Phe Glu Met Leu Leu
 435 440 445

Ala Phe Met Thr Leu Val Lys Gln Tyr Gly Pro Glu Phe Val Thr Gly
 450 455 460

Tyr Asn Ile Ile Asn Phe Asp Trp Pro Phe Leu Leu Ala Lys Leu Thr
 465 470 475 480

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Asp Ile Tyr Lys Val Pro Leu Asp Gly Tyr Gly Arg Met Asn Gly Arg
485 490 495

Gly Val Phe Arg Val Trp Asp Ile Gly Gln Ser His Phe Gln Lys Arg
500 505 510

Ser Lys Ile Lys Val Asn Gly Met Val Asn Ile Asp Met Tyr Gly Ile
515 520 525

Ile Thr Asp Lys Ile Lys Leu Ser Ser Tyr Lys Leu Asn Ala Val Ala
530 535 540

Glu Ala Val Leu Lys Asp Lys Lys Lys Asp Leu Ser Tyr Arg Asp Ile
545 550 555 560

Pro Ala Tyr Tyr Ala Ala Gly Pro Ala Gln Arg Gly Val Ile Gly Glu
565 570 575

Tyr Cys Ile Gln Asp Ser Leu Leu Val Gly Gln Leu Phe Phe Lys Phe
580 585 590

Leu Pro His Leu Glu Leu Ser Ala Val Ala Arg Leu Ala Gly Ile Asn
595 600 605

Ile Thr Arg Thr Ile Tyr Asp Gly Gln Gln Ile Arg Val Phe Thr Cys
610 615 620

Leu Leu Arg Leu Ala Asp Gln Lys Gly Phe Ile Leu Pro Asp Thr Gln
625 630 635 640

Gly Arg Phe Arg Gly Ala Gly Gly Glu Ala Pro Lys Arg Pro Ala Ala
645 650 655

Ala Arg Glu Asp Glu Glu Arg Pro Glu Glu Glu Gly Glu Asp Glu Asp
660 665 670

Glu Arg Glu Glu Gly Gly Gly Glu Arg Glu Pro Glu Gly Ala Arg Glu
675 680 685

Thr Ala Gly Arg His Val Gly Tyr Gln Gly Ala Arg Val Leu Asp Pro
690 695 700

Thr Ser Gly Phe His Val Asn Pro Val Val Val Phe Asp Phe Ala Ser
705 710 715 720

Leu Tyr Pro Ser Ile Ile Gln Ala His Asn Leu Cys Phe Ser Thr Leu
725 730 735

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Ser Leu Arg Ala Asp Ala Val Ala His Leu Glu Ala Gly Lys Asp Tyr
740 745 750

Leu Glu Ile Glu Val Gly Gly Arg Arg Leu Phe Phe Val Lys Ala His
755 760 765

Val Arg Glu Ser Leu Leu Ser Ile Leu Leu Arg Asp Trp Leu Ala Met
770 775 780

Arg Lys Gln Ile Arg Ser Arg Ile Pro Gln Ser Ser Pro Glu Glu Ala
785 790 795 800

Val Leu Leu Asp Lys Gln Gln Ala Ala Ile Lys Val Val Cys Asn Ser
805 810 815

Val Tyr Gly Phe Thr Gly Val Gln His Gly Leu Leu Pro Cys Leu His
820 825 830

Val Ala Ala Thr Val Thr Thr Ile Gly Arg Glu Met Leu Leu Ala Thr
835 840 845

Arg Glu Tyr Val His Ala Arg Trp Ala Ala Phe Glu Gln Leu Leu Ala
850 855 860

Asp Phe Pro Glu Ala Ala Asp Met Arg Ala Pro Gly Pro Tyr Ser Met
865 870 875 880

Arg Ile Ile Tyr Gly Asp Thr Asp Ser Ile Phe Val Leu Cys Arg Gly
885 890 895

Leu Thr Ala Ala Gly Leu Thr Ala Val Gly Asp Lys Met Ala Ser His
900 905 910

Ile Ser Arg Ala Leu Phe Leu Pro Pro Ile Lys Leu Glu Cys Glu Lys
915 920 925

Thr Phe Thr Lys Leu Leu Leu Ile Ala Lys Lys Lys Tyr Ile Gly Val
930 935 940

Ile Tyr Gly Gly Lys Met Leu Ile Lys Gly Val Asp Leu Val Arg Lys
945 950 955 960

Asn Asn Cys Ala Phe Ile Asn Arg Thr Ser Arg Ala Leu Val Asp Leu
965 970 975

Leu Phe Tyr Asp Asp Thr Val Ser Gly Ala Ala Ala Ala Leu Ala Glu

980

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985 990

Arg Pro Ala Glu Glu Trp Leu Ala Arg Pro Leu Pro Glu Gly Leu Gln
995 1000 1005

Ala Phe Gly Ala Val Leu Val Asp Ala His Arg Arg Ile Thr Asp
1010 1015 1020

Pro Glu Arg Asp Ile Gln Asp Phe Val Leu Thr Ala Glu Leu Ser
1025 1030 1035

Arg His Pro Arg Ala Tyr Thr Asn Lys Arg Leu Ala His Leu Thr
1040 1045 1050

Val Tyr Tyr Lys Leu Met Ala Arg Arg Ala Gln Val Pro Ser Ile
1055 1060 1065

Lys Asp Arg Ile Pro Tyr Val Ile Val Ala Gln Thr Arg Glu Val
1070 1075 1080

Glu Glu Thr Val Ala Arg Leu Ala Ala Leu Arg Glu Leu Asp Ala
1085 1090 1095

Ala Ala Pro Gly Asp Glu Pro Ala Pro Pro Ala Ala Leu Pro Ser
1100 1105 1110

Pro Ala Lys Arg Pro Arg Glu Thr Pro Ser Pro Ala Asp Pro Pro
1115 1120 1125

Gly Gly Ala Ser Lys Pro Arg Lys Leu Leu Val Ser Glu Leu Ala
1130 1135 1140

Glu Asp Pro Ala Tyr Ala Ile Ala His Gly Val Ala Leu Asn Thr
1145 1150 1155

Asp Tyr Tyr Phe Ser His Leu Leu Gly Ala Ala Cys Val Thr Phe
1160 1165 1170

Lys Ala Leu Phe Gly Asn Asn Ala Lys Ile Thr Glu Ser Leu Leu
1175 1180 1185

Lys Arg Phe Ile Pro Glu Val Trp His Pro Pro Asp Asp Val Ala
1190 1195 1200

Ala Arg Leu Arg Thr Ala Gly Phe Gly Ala Val Gly Ala Gly Ala
1205 1210 1215

Thr Ala Glu Glu Thr Arg Arg Met Leu His Arg Ala Phe Asp Thr
 1220 1225 1230

Leu Ala
 1235

<210> 4

<211> 488

<212> PRT

<213> herpes simplex virus

<400> 4

Met Thr Asp Ser Pro Gly Gly Val Ala Pro Ala Ser Pro Val Glu Asp
 1 5 10 15

Ala Ser Asp Ala Ser Leu Gly Gln Pro Glu Glu Gly Ala Pro Cys Gln
 20 25 30

Val Val Leu Gln Gly Ala Glu Leu Asn Gly Ile Leu Gln Ala Phe Ala
 35 40 45

Pro Leu Arg Thr Ser Leu Leu Asp Ser Leu Leu Val Met Gly Asp Arg
 50 55 60

Gly Ile Leu Ile His Asn Thr Ile Phe Gly Glu Gln Val Phe Leu Pro
 65 70 75 80

Leu Glu His Ser Gln Phe Ser Arg Tyr Arg Trp Arg Gly Pro Thr Ala
 85 90 95

Ala Phe Leu Ser Leu Val Asp Gln Lys Arg Ser Leu Leu Ser Val Phe
 100 105 110

Arg Ala Asn Gln Tyr Pro Asp Leu Arg Arg Val Glu Leu Ala Ile Thr
 115 120 125

Gly Gln Ala Pro Phe Arg Thr Leu Val Gln Arg Ile Trp Thr Thr Thr
 130 135 140

Ser Asp Gly Glu Ala Val Glu Leu Ala Ser Glu Thr Leu Met Lys Arg
 145 150 155 160

Glu Leu Thr Ser Phe Val Val Leu Val Pro Gln Gly Thr Pro Asp Val
 165 170 175

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Gln Leu Arg Leu Thr Arg Pro Gln Leu Thr Lys Val Leu Asn Ala Thr
180 185 190

Gly Ala Asp Ser Ala Thr Pro Thr Thr Phe Glu Leu Gly Val Asn Gly
195 200 205

Lys Phe Ser Val Phe Thr Thr Ser Thr Cys Val Thr Phe Ala Ala Arg
210 215 220

Glu Glu Gly Val Ser Ser Ser Thr Ser Thr Gln Val Gln Ile Leu Ser
225 230 235 240

Asn Ala Leu Thr Lys Ala Gly Gln Ala Ala Ala Asn Ala Lys Thr Val
245 250 255

Tyr Gly Glu Asn Thr His Arg Thr Phe Ser Val Val Val Asp Asp Cys
260 265 270

Ser Met Arg Ala Val Leu Arg Arg Leu Gln Val Gly Gly Gly Thr Leu
275 280 285

Lys Phe Phe Leu Thr Thr Pro Val Pro Ser Leu Cys Val Thr Ala Thr
290 295 300

Gly Pro Asn Ala Val Ser Ala Val Phe Leu Leu Lys Pro Gln Lys Ile
305 310 315 320

Cys Leu Asp Trp Leu Gly His Ser Gln Gly Ser Pro Ser Ala Gly Ser
325 330 335

Ser Ala Ser Arg Ala Ser Gly Ser Glu Pro Thr Asp Ser Gln Asp Ser
340 345 350

Ala Ser Asp Ala Val Ser His Gly Asp Pro Glu Asp Leu Asp Gly Ala
355 360 365

Ala Arg Ala Gly Glu Ala Gly Ala Leu His Ala Cys Pro Met Pro Ser
370 375 380

Ser Thr Thr Arg Val Thr Pro Thr Thr Lys Arg Gly Arg Ser Gly Gly
385 390 395 400

Glu Asp Ala Arg Ala Asp Thr Ala Leu Lys Lys Pro Lys Thr Gly Ser
405 410 415

Pro Thr Ala Pro Pro Pro Ala Asp Pro Val Pro Leu Asp Thr Glu Asp
420 425 430

10498-00059.ST25.txt

Asp Ser Asp Ala Ala Asp Gly Thr Ala Ala Arg Pro Ala Ala Pro Asp
435 440 445

Ala Arg Ser Gly Ser Arg Tyr Ala Cys Tyr Phe Arg Asp Leu Pro Thr
450 455 460

Gly Glu Ala Ser Pro Gly Ala Phe Ser Ala Phe Arg Gly Gly Pro Gln
465 470 475 480

Thr Pro Tyr Gly Phe Gly Phe Pro
485